

# ERVIN MOORE

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## EDUCATION

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**Ph.D. in Computer Science** *Aug. 2022 - Present*  
Knight Foundation School of Computing and Information Science  
Sustainability, Optimization, and Learning for InterDependent networks laboratory (solid lab)  
College of Engineering and Computing, Florida International University  
**Ph.D. Co-Advisors:** Dr. M. Hadi Amini and Dr. Shabnam Rezapour  
**Ph.D. Dissertation Topic:** Resilient Privacy-Preserving Federated Learning: Theory and Applications

**Master of Science in Artificial Intelligence and Machine Learning** *2020 - 2022*  
3.90 GPA - Colorado State University-Global

**Bachelor of Arts in Communication Technologies** *2017 - 2019*  
3.06 GPA - University of Texas at Arlington  
Certificate in Emerging Media

## WORK EXPERIENCE

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Sustainability, Optimization, and Learning for InterDependent networks laboratory [solid lab]  
*Graduate Assistant* *August 2022 - Present*

- Working on Machine Learning research regarding Federated Learning, Blockchain, Security, Privacy, Resource Limitations and Optimization.
- Recently completed a paper titled: 'A Survey on Secure and Private Federated Learning Using Blockchain: Theory and Application in Resource-constrained Computing'.

## HONORS AND RECOGNITION

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- Awarded DHS CAESCIR PhD Fellowship, 2022
- Won multiple AI hackathons:
  - OpenAI Codex User Optimization Tool (Re-Overhaul), 1st Place.
  - GPT-3 Automated Notetaker (Actionist), 2nd Place.
  - Open Data Credible Health Accessibility (How Safe Are Drugs), 1st Place.

## VOLUNTEER EXPERIENCE

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- Mentored and judged 10 AI hackathons in 2022:  
Startup AI Tools Set Online Hackathon [1], Deep Learning Labs, Reinforcement Learning OpenAI Gym [2], AI NFT Deep Learning Labs Hackathon [3], OpenAI Whisper Hackathon [4], Transformers Online AI Hackathon [5], Stable Diffusion: The Future of Text-to-Image Models [6], Generative AI Hackathon [7], OpenAI Whisper, GPT3, Codex & DALL-E 2 Hackathon [8], and Semantic Search AI Hackathon [9].  
Previously volunteered for Open AI API Future Tech Hack [0].  
Microcredential in Artificial Intelligence: How it Works and its Impact

## RESEARCH INTERESTS

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- Machine Learning (Federated Learning, Deep Learning, Transfer Learning).
- Cyber-physical-social systems (Computing, Communications, Internet of Things).
- Databases (Blockchain, Cryptography, Data Privacy).

## TECHNICAL STRENGTHS

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Programming language	Python, C, C++
Machine Learning	Tensorflow, Keras, Scikit-learn
Natural Language Processing	GPT-3, Prompt Engineering
Web based skills	JavaScript, CSS, HTML
Development tools	PyCharm, Visual Studio Code
Database Management Systems	PHP, MySQL